



# **Intel<sup>®</sup> Omni-Path Fabric Q7 BIOS and Board Controller Firmware**

**Release Notes for V10.7**

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***Rev. 1.0***

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## 1.0 Overview of the Release

This document provides a brief overview of the changes introduced into the Intel® Omni-Path Q7 BIOS and Board Controller Firmware (Q7 BIOS) by this release. Intel® Omni-Path Q7 BIOS is used for the hardware listed in [Table 3](#) on page 7.

The information contained in this document is intended as supplemental information only; it should be used in conjunction with the documentation provided for each component.

These Release Notes list the features supported in this release, open issues, and issues that were resolved during release development.

### 1.1 Audience

The information provided in this document is intended for installers, software support engineers, service personnel, and system administrators.

### 1.2 Document Versions

The following table lists the end user document versions supported by this release.

**Table 1. Supported Document Versions**

Title	Doc. Number	Revision
<i>Intel® Omni-Path Fabric Quick Start Guide</i>	J57479	4.0
<i>Intel® Omni-Path Fabric Setup Guide</i>	J27600	8.0
<i>Intel® Omni-Path Fabric Switches Hardware Installation Guide</i>	H76456	7.0
<i>Intel® Omni-Path Host Fabric Interface Installation Guide</i>	H76466	5.0
<i>Intel® Omni-Path Fabric Software Installation Guide</i>	H76467	9.0
<i>Intel® Omni-Path Fabric Switches GUI User Guide</i>	H76457	9.0
<i>Intel® Omni-Path Fabric Switches Command Line Interface Reference Guide</i>	H76458	9.0
<i>Intel® Omni-Path Fabric Suite FastFabric User Guide</i> (Merged with: <i>Intel® Omni-Path Fabric Suite FastFabric Command Line Interface Reference Guide</i> )	H76469	9.0
<i>Intel® Omni-Path Fabric Suite Fabric Manager User Guide</i>	H76468	9.0
<i>Intel® Omni-Path Fabric Suite Fabric Manager GUI User Guide</i>	H76471	9.0
<i>Intel® Omni-Path Fabric Host Software User Guide</i>	H76470	9.0
<i>Intel® Performance Scaled Messaging 2 (PSM2) Programmer's Guide</i>	H76473	9.0
<i>Intel® Omni-Path Fabric Performance Tuning User Guide</i>	H93143	11.0
<i>Intel® Omni-Path IP and LNet Router Design Guide</i> (Old title: <i>Intel® Omni-Path IP and Storage Router Design Guide</i> )	H99668	6.0
<b>continued...</b>		



Title	Doc. Number	Revision
<i>Building Containers for Intel® Omni-Path Fabrics using Docker* and Singularity* Application Note</i>	J57474	4.0
<i>Intel® Omni-Path Management API Programmer's Guide</i>	J68876	3.0
<i>Configuring Non-Volatile Memory Express* (NVMe*) over Fabrics on Intel® Omni-Path Architecture Application Note</i>	J78967	1.0
<i>Intel® Omni-Path Fabric Software Release Notes</i>	J95967	1.0
<i>Intel® Omni-Path Fabric Manager GUI Release Notes</i>	J95968	1.0
<i>Intel® Omni-Path Fabric Switches Release Notes (includes managed and externally-managed switches)</i>	J95964	1.0
<i>Intel® Omni-Path Fabric Unified Extensible Firmware Interface (UEFI) Release Notes</i>	J98868	1.0
<i>Intel® Omni-Path Fabric Thermal Management Microchip (TMM) Release Notes</i>	J98871	1.0
<i>Intel® Omni-Path Fabric Firmware Tools Release Notes</i>	J98870	1.0

### 1.3 Software License Agreement

This software is provided under license agreements and may contain third-party software under separate third-party licensing. Please refer to the license files provided with the software for specific details.

### 1.4 If You Need Help

Technical support for Intel® Omni-Path products is available 24 hours a day, 365 days a year. Please contact Intel Customer Support or visit <http://www.intel.com/omnipath/support> for additional detail.

### 1.5 Supported Features

- The list of supported hardware is in [Table 3](#) on page 7.
- Creates a standalone package of Q7 BIOS and Board Controller Firmware that is external to the Intel OPA IFS package

### 1.6 Firmware Files

This release contains the firmware files listed in the table below.

**Table 2. Firmware Files**

Description	File Name	Version
Q7 BIOS	QA3ER962.q7.spkg	QA3ER962
Q7 Board Controller Firmware	CGBCP429.q7.spkg	CGBCP429

### 1.7 Intel Hardware

All Omni-Path managed switches require (at minimum) the Q7 BIOS and Board Controller Firmware shown in [Table 2](#).



**Table 3. Supported Intel Hardware**

Product Code	Description
100SWE24QF2	OPA 100 1U 24 Port 2PS Std-Air Managed
100SWE48QR2	OPA 100 1U 48 Port 2PS Std-Air Managed
100SWE48QF1	OPA 100 1U 48 Port 1PS Std-Air Managed
100SWD06B1N	OPA 100 6 Slot Chassis 1MM N Power
100SWD24B1N	OPA 100 24 Slot Chassis 1MM N Power
100SWEQ7CN1	OPA 100 Edge Management Card
100SWDMGTSH	OPA 100 Director Management Module
100SWE48QF2	OPA 100 1U 48 Port 2PS Std-Air Managed
100SWE48QFH	OPA 100 1U 48 Port HS Std-Air Managed
100SWE48QFC	OPA 100 1U 48 Port HS Std-Air Q7 Chassis

## 1.8 Installation Requirements

### 1.8.1 Installation Instructions

For installation details, refer to the *Intel® Omni-Path Fabric Switches Hardware Installation Guide*.

Download the standalone BIOS and Board Controller Firmware from an Intel web page or other Intel secured location using the following procedures.

- Using a web browser, go to <https://downloadcenter.intel.com/search?keyword=Omni-Path>.  
*Notes:* You can manually navigate to the software using the following steps:
  - Using a web browser, type `downloadcenter.intel.com` in the address field and press **Enter**.
  - In the "Search downloads" field, type `Omni-Path` and press **Enter**.
- In the Description list, select the "Intel® Omni-Path Q7 BIOS and Board Controller Firmware" for the version you want to install.  
*Note:* The latest version of each type of each download type is showing in the list. To show previous versions, select "Show more" at the bottom of the list.
- In the "Available Downloads" list, select the files you need.
- Review the Intel Software License Agreement.
- Click "I accept the terms in the license agreement."
- Save the download to your hard drive.

#### Important Information for Q7 BIOS and Board Controller Firmware Update

##### Before Getting Started

- Ensure that the Q7 unit being updated is a QA3E. This unit can be found in either a managed Edge switch or a Director Class switch management module.
- The Q7 update has two parts; board controller firmware (BCFW) and BIOS.



- Two separate files are used to perform the update
- The update files are **bcfw: CGBCP429.q7.spkg** for the firmware update and **bios: QA3ER962.q7.spkg** for the BIOS update
- The BCFW and BIOS update requires switch firmware version 10.7 (or newer)

#### **Prior to Upgrading**

Make sure that the subnet manager (SM) is not running on the switch:

- Execute the CLI command `smcontrol` to ensure that the embedded subnet manager (ESM) is not running on the switch. For example:  

```
Edge-> smControl  
Subnet manager is not started.
```
- Execute the CLI command `who` to ensure that no other CLI sessions are running during the update.

## **1.9 Product Constraints**

None.

## **1.10 Product Limitations**

This release has the following product limitations:

None.





## 2.0 Issues

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This section lists the resolved and open issues in the Intel® Omni-Path Q7 BIOS.

### 2.1 Resolved Issues

#### 2.1.1 Issues Resolved in this Release

The following table lists issues that are resolved in this release.

**Table 4. Issues Resolved in this Release**

ID	Description	Resolved in Release
140389	Intel® Omni-Path Qseven® (Q7) BIOS and Board Controller Firmware update addresses the impact to Omni-Path Managed Switches from the Intel IOTG Atom® Processor E3800 Series Erratum VLI89.	10.7

### 2.2 Open Issues